

REMARKS

Reconsideration and allowance in view of the foregoing amendments and the following remarks is respectfully requested.

Claims 5-9 remain pending in the application.

Applicants appreciatively note the indication that claims 5-9 would be allowable if rewritten to overcome the rejection under 35 U.S.C. §112, second paragraph.

Accordingly, in this response, claims 5-9 have been amended and are now believed both clear and definite.

More specifically, the Examiner indicated that the phrase "the reconstituted panoramic reverberation" recited in claim 5, is lacking antecedent basis. In response, "the reconstituted panoramic reverberation" has been replaced with "a representation of a reverberation level at each point of said range-bearing plane." It is respectfully submitted that, "**Panoramic reverberation**" refers to the reverberation level received by the sonar from every point (defined by a range/bearing couple) around the receiving array. Reverberation, as is well known, may be caused by scattering from the bottom (the seabed), from the water volume or from the sea surface. The adjective "panoramic" is used similarly to the phrase "panoramic surveillance sonar". The phrase "panoramic surveillance sonar" refers to 360° surveillance around the receiving array.

The phrase "**Reconstituted** panoramic reverberation" refers to a panoramic image of the reverberation level which is built up by selecting for each range/bearing point, the level provided by the Doppler channel corresponding to immobile objects (for example, the ocean bottom) located in this point.

With respect to "a line spectrum emission", which is indicated by the Examiner as unclear, Applicants respectfully submit that the word "emission" is in fact a translation error, and that claim 1 has been accordingly amended to replace "a sonar using a line spectrum emission" with "a sonar using a line spectrum transmission". It is submitted that, "a sonar using a line spectrum transmission" refers to "an active sonar transmitting a waveform with a spectrum composed of one or several spectral lines." Examples of line spectrum waveform may include: single line spectrum, such as Continuous Waveform (CW); and comb-spectrum, such as Cox, Pulse Train Frequency Modulation (PTFM) or Sinusoidal FM (SFM) and the like. The term "Line Spectrum Waveform" is the opposite of the term "Continuous spectrum waveform". A continuous spectrum, for example, includes Hyperbolic or Linear Frequency Modulation (HFM or LFM), Pseudo-Noise (PN) or Binary Phase-Shift Keying BPSK.

Similar to claim 5, the corresponding phrases recited in claims 6-9 have been amended. Accordingly, all of the indefinite phrases have been corrected. As will be appreciated from the above, the amendments made in this response merely overcome syntactical defect and do not broaden or change the scope of the allowable claims 5-9.

All rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly solicited.

Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicant's attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of

this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

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A handwritten signature in cursive script that reads "Kenneth M. Berner".

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